IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the Application of:

Norio FUKASAWA et al

PTO Confirmation No. 6285

Serial Number: 09/029,608

Group Art Unit: 2814

Filed: May 15, 1998

Examiner: Graybill, D.

For:

METHOD AND MOLD FOR MANUFACTURING

SEMICONDUCTOR DEVICE, SEMICONDUCTOR

DEVICE AND METHOD FOR MOUNTING THE DEVICE

INFORMATION DISCLOSURE STATEMENT WITH STATEMENT PURSUANT TO 37 CFR 1.97(d)

Attn: Group Director

MAIL STOP AF

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

June 19, 2003

Sir:

The attention of the Patent and Trademark Office is hereby directed to the documents listed on the attached Form PTO-1449. One copy of each of these documents is attached.

This Information Disclosure Statement is submitted after the mailing of a final action, a Notice of Allowance, or an action that otherwise closes prosecution in the application, but on or before payment of the Issue Fee.

The undersigned hereby states that each item of information contained in this statement (if not already of record) was first cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this statement.

06/20/2003 ZJUHAR1 00000047 09029608

The above information is presented so that the Patent and Trademark Office can, in the first instance, determine any materiality thereof to the claimed invention. Sec 37 CFR 1.104(a) concerning the PTO duty to consider and use any such information. It is respectfully requested that the information be expressly considered during the prosecution of this application, and that the documents cited in the attached Form PTO-1449 be made of record therein and appear on the first page of any patent to issue therefrom.

A check is attached hereto which covers the \$ 180.00 fee set forth in 37 CFR § 1.17(p). The Commissioner is hereby authorized to charge any additional fee (or credit any overpayment) associated with this Statement to our Deposit Account No. 01-2340.

Respectfully submitted,

ARMSTRONG, WESTERMAN & HATTORI, LLP

Stephen G. Adrian Attorney for Applicants Reg. No. 32,878

Atty. Docket No. **980233** Suite 1000 1725 K Street, N.W. Washington, D.C. 20006 (202) 659-2930

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PATENT TRADEMARK OFFICE

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Enclosures:

2 European Search Reports

PTO 1449 w/11 refs.

\$180.00 fee

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Europäisches Patentamit

Zweigstelle in Den maag Recherchenabteilung

European Patent Office

The Hague Search division.

Office europeen des brevets

Departement a La Haye Division de la

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| | Datum/Date 03.06.03 |
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Zeicher/Ref./Réf. HL59517/012/WS Anmeldung Nr./Application No./Demande nº./Patent Nr./Patent No./Brevet nº.

02016816.7-2203-

Anmelder/Applicant/Demandeur/Patentinhaber/Proprietor/Titulaire FUJITSU LIMITED

COMMUNICATION

| The European Patent Office herewith transmits | as an enclosure | the European | search report | for the |
|---|-----------------|--------------|---------------|---------|
| above-mentioned European patent application. | | | • | |

If applicable, copies of the documents cited in the European search report are attached.

Additional set(s) of copies of the documents cited in the European search report is (are) enclosed as well.

The following specifications given by the applicant have been approved by the Search Division:

Abstract

Ŭ title

The abstract was modified by the Search Division and the definitive text is attached to this communication.

The following figure will be published together with the abstract:

3



If applicable under Article 10 Rules relating to fees, a separate communication from the Receiving Section on the refund of the search fee will be sent later.



EPO COSA 1503 03.82 (PO4C01)

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| ١ | MUNICH | 22 May 2003 | Cous | sins, D | |
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ANNEX TO THE EUROPEAN SEARCH REPORT ON EUROPEAN PATENT APPLICATION NO.

EP 02 01 6816

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report. The members are as contained in the European Patent Office EDP file on The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

22-05-2003

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The European Patent Office herewith transmits

Europaiscoes Patentamt

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Branch at The Hague Search Indisph Office européen des brevets

Departement a La Harm Division de la Jegnerone

Silverman, Warren Haseltine Lake & Co. Imperial House, 15-19 Kingsway London WC2B 6UD GRANDE BRETAGNE

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| ACKNOWLEDGEMENT | _ | |
| HASELTINE LAKE LONDON T | _ | |

Zeichen/Ref./Ref.
HL59517/004/WS
Anmelder/Applicant/Demandeur/Patentinhaber/Proprietor/Titulaire
FUJITSU LIMITED

Anmelder/Applicant/Demandeur/Patentinhaber/Proprietor/Titulaire

COMMUNICATION

| \boxtimes | the European search report | | |
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| | the declaration under Rule 45 EPC | | • |
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| The following | ng specifications given by the applicant | have been approved by the Search Division : | |
| · X | Abstract | Title | X Figure |
| | The abstract was modified by the Sear | ch Division and the definitive text is attached to this | s communication. |
| | The following figure will be published with the invention than the one indicated by | rith the abstract, since the Search Division conside the applicant. | rs that it better characterises |
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REFUND OF THE SEARCH FEE

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Application Number

EP 01 12 6199

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| CLAIMS INCURRING FEES |
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| The present European patent application comprised at the time of filing more than ten claims. |
| Only part of the claims have been paid within the prescribed time limit. The present European search report has been drawn up for the first ten claims and for those claims for which claims fees have been paid, namely claim(s): |
| No claims fees have been paid within the prescribed time limit. The present European search report habeen drawn up for the first ten claims. |
| LACK OF UNITY OF INVENTION |
| The Search Division considers that the present European patent application does not comply with the requirements of unity of invention and relates to several inventions or groups of inventions, namely: |
| see sheet B |
| All further search fees have been paid within the fixed time limit. The present European search report have been drawn up for all claims. |
| As all searchable claims could be searched without effort justifying an additional fee, the Search Divisio did not invite payment of any additional fee. |
| Only part of the further search fees have been paid within the fixed time limit. The present European search report has been drawn up for those parts of the European patent application which relate to the inventions in respect of which search fees have been paid, namely claims: |
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| None of the further search fees have been paid within the fixed time limit. The present European search report has been drawn up for those parts of the European patent application which relate to the invention first mentioned in the claims, namely claims: |
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LACK OF UNITY OF INVENTION SHEET B

Application Number

EP 01 12 6199

The Search Division considers that the present European patent application does not comply with the requirements of unity of invention and relates to several inventions or groups of inventions, namely:

1. Claims: 1, 2, 18, 19

Claims 1, 2, 18 and 19 relate to a semiconductor device comprising a semiconductor element having having (optionally convex - claim 2) protruding electrodes, a resin seal, and (further) external connection protruding electrodes on said protruding electrodes.

2. Claims: 3 - 7

Claims 3-7 relate to a semiconductor element comprising a semiconductor element having protruding electrodes, a resin seal, and said protruding electrodes having a core portion and an electrically conductive film thereon.

3. Claim: 8

Claim 8 relates to a semiconductor element comprising a semiconductor element having protruding electrodes, a resin seal, and the semiconductor element having an outer peripheral portion thinner than a central portion.

4. Claim: 9

Claim 9 relates to a semiconductor element comprising a semiconductor element having protruding electrodes, a resin seal, and the semiconductor element having an outer peripheral portion thicker than a central portion.

5. Claim: 10

Claim 10 relates to a semiconductor element comprising a semiconductor element having protruding electrodes, a resin seal, and part of the side portion of the semiconductor element being covered with the resin layer.

6. Claims: 11, 12

Claims 11 and 12 relate to a semiconductor element comprising a semiconductor element having protruding electrodes, a resin seal, and the semiconductor element having a protrusion for positioning formed thereon.

7. Claims: 13 - 17

This annex lists the patent family members relating to the patent documents cited in the above—mentioned European search report. The members are as contained in the European Patent Office EDP file on The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

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DISCLOSURE
CITATION
PTO-1449

| Atty. Docket No. 980233 | Serial No. | 09/029,608 | |
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Applicant(s): FUKASAWA et al.

Filing Date: May 15, 1998 Group Art Unit: 2814

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